

Application No. 09/585,444
Amendment Dated October 16, 2003
Reply to Office Action of July 16, 2003

Attorney Docket No. YHK-045

IN THE CLAIMS:

1. (Previously Presented) A plasma display panel, comprising;

a plurality of dielectric patterns formed on a substrate to have a convex surface;

a first electrode formed on the dielectric patterns and the substrate;

a second electrode for causing a discharge along with the first electrode; and

a dielectric layer provided between the first and second electrodes to make an insulation between the first and second electrodes.
2. (Previously Presented) The plasma display panel as claimed in claim 1, wherein the first electrode has lands and grooves complying with a wave shape made by the surfaces of the dielectric patterns and the substrate.
3. (Previously Presented) The plasma display panel as claimed in claim 1, wherein the dielectric layer is entirely deposited on the substrate provided with the first electrode and the dielectric patterns to have a wave-shaped surface.

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4. (Previously Presented) The plasma display panel as claimed in claim 1, wherein the first and second electrodes cross each other with having the dielectric layer therebetween.

5. (Previously Presented) The plasma display panel as claimed in claim 4, wherein each of the plurality of dielectric patterns is formed in a stripe shape in a direction parallel to the second electrode.

6. (Previously Presented) The plasma display panel as claimed in claim 1, wherein a width of the dielectric pattern is adjusted to control a discharge distance between the first and second electrodes.

7. (Previously Presented) The plasma display panel as claimed in claim 1, wherein the first electrode is an address electrode to which a data signal is applied, and the second electrode is a scanning electrode to which a scanning pulse synchronized with the data signal is applied.

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8. (Previously Presented) The plasma display panel as claimed in claim 1, further comprising:

a radio frequency electrode coupled with a radio frequency signal to cause a discharge along with the second electrode.

9. (Previously Presented) A plasma display panel, comprising:

a first electrode formed on a substrate;

a second electrode crossing the first electrode to cause a discharge along with the first electrode; and

a dielectric pattern located between the first and second electrodes for making an insulation between the first and second electrodes, wherein the dielectric pattern is formed in a striped shape.

10. (Previously Presented) The plasma display panel as claimed in claim 9, wherein a thickness of the dielectric pattern is adjusted to control a leakage current between the first and second electrodes.

11. (Canceled).

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12. (Previously Presented) The plasma display panel as claimed in claim 9, wherein the dielectric pattern is formed in a striped shape running substantially parallel to the second electrodes.

13. (Canceled).

14. (Previously Presented) The plasma display panel as claimed in claim 9, wherein the first electrode is an address electrode to which a data signal is applied, and the second electrode is a scanning electrode to which a scanning pulse synchronized with the data signal is applied.

15. (Previously Presented) The plasma display panel as claimed in claim 9, further comprising:

a radio frequency electrode coupled with a radio frequency signal to cause a discharge along with the second electrode.

16-22. (Canceled).

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23. (Previously Presented) The plasma display panel as claimed in claim 9, comprising:
an upper panel including a radio frequency electrode.

24-26. (Canceled).

27. (Currently Amended) A plasma display panel, comprising:
a first electrode formed on a substrate;
a second electrode crossing the first electrode to cause a discharge along with the
first electrode;
a dielectric pattern located between the first and second electrodes for making an
insulation between the first and second electrodes, wherein the dielectric pattern has an island
shape at an intersection between the first and second electrodes; and
a radio frequency electrode coupled with a radio frequency signal to cause a
discharge along with the second electrode.

28. (Canceled).

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29. (Previously Presented) The plasma display panel of claim 27, further comprising a dielectric layer coated entirely on the substrate provided with the first and second electrodes and the dielectric pattern.

30. (Previously Presented) The plasma display panel of claim 27, wherein the first electrode is an address electrode to which a data signal is applied, and the second electrode is a scanning electrode to which a scanning pulse synchronized with the data signal is applied.

31. (Canceled).

32. (New) A plasma display panel, comprising:

a first electrode formed on a substrate;

a second electrode crossing the first electrode to cause a discharge along with the first electrode;

a dielectric pattern located between the first and second electrodes, wherein the dielectric pattern is formed in a striped shape; and

a radio frequency electrode coupled with a radio frequency signal to cause a discharge along with the second electrode.

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33. (New) A plasma display panel, comprising:
- a first electrode formed on a substrate;
 - a second electrode crossing the first electrode to cause a discharge along with the first electrode;
 - a dielectric pattern located between the first and second electrodes, wherein the dielectric pattern is formed in a striped shape; and
 - an upper panel including a radio frequency electrode.
34. (New) A plasma display panel, comprising:
- a first electrode formed on a substrate;
 - a second electrode crossing the first electrode to cause a discharge along with the first electrode; and
 - a dielectric pattern located between the first and second electrodes for making an insulation between the first and second electrodes, wherein the dielectric pattern has an island shape at an intersection between the first and second electrodes, and wherein the first and second electrodes cause an address discharge.

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35. (New) The plasma display panel of claim 34, further comprising a radio frequency electrode coupled with a radio frequency signal to cause a discharge along with the second electrode.

36. (New) The plasma display panel of claim 34, further comprising a dielectric layer coated entirely on the substrate provided with the first and second electrodes and the dielectric pattern.

37. (New) The plasma display panel of claim 34, wherein the first electrode is an address electrode to which a data signal is applied, and the second electrode is a scanning electrode to which a scanning pulse synchronized with the data signal is applied.